

Signal and Imaging Sciences WORKSHOP

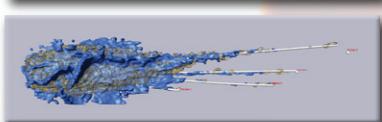


November 16-17, 2006

*at Lawrence Livermore National Laboratory
Building 482 Auditorium*

A workshop for LLNL, UC community personnel, and others to share accomplishments, ideas, and areas of need in the Signal, Imaging, and Communications Sciences. We are soliciting 15-minute presentations for the workshop.

Keynote Speakers:



Tomographic slice (top) of "Wild 2" comet dust particles captured in a silicon-based aerogel by the NASA Stardust spacecraft and returned to earth in January 2006. A 3-D rendering (bottom) of the full reconstruction from LLNL's Xradia Micro-XCT scanner reveals the paths of the comet particles.

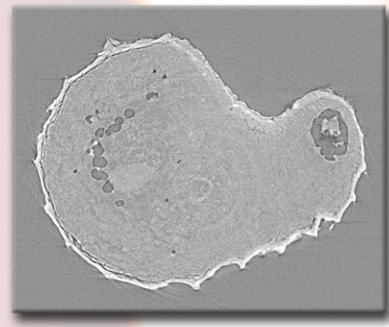
Image Credit: Nick E. Teslich Jr. and William D. Brown

Dr. James Candy

*Lawrence Livermore National Laboratory /
University of California, Santa Barbara*

Prof. Sanjit Mitra

University of Southern California



Targets for high-energy-density physics experiments in the National Ignition Facility laser are about the size of a poppy seed. This image shows a tomographic slice of an actual poppy seed from LLNL's Xradia Micro-XCT scanner.

Image Credit: John D. Sain and Harry E. Martz, Jr.

Call For ABSTRACTS

Contact us about organizing a special session

Titles and Abstracts due by October 6, 2006

LLNL abstracts must have a UCRL release number

To attend or make a presentation, fill-out the registration form on the reverse side of this flier.

E-mail to: Vickie Abreu at abreu2@llnl.gov

Go to Casis website: (<http://CASIC.llnl.gov/>) for more info and to download an electronic copy of the registration form.

For technical information: Steve Azevedo, Casis Director, (925) 422-8538, L-463

For registration and general information: Vickie Abreu, (925) 422-1220, L-290

Sponsored by the LLNL Engineering Directorate and the Center for Advanced Signal and Image Sciences (Casis)



The background image is a simulated long-exposure image of a star and its planet (to the right). The spatially-filtered wavefront sensor for adaptive optics prevents aliasing in measuring Earth's atmospheric turbulence to produce improved correction, creating a dark region around the target star. High-contrast imaging with AO is being applied to the detection of extra-solar planets.

Image Credit: Lisa A. Poyneer and Bruce A. Macintosh



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Signal and Imaging Sciences Workshop REGISTRATION FORM

(You may also register electronically. Download the electronic form from <http://casis.llnl.gov>, complete it, and e-mail to: abreu2@llnl.gov.)

Name: _____

Affiliation: LLNL/Sandia

Other (academia/government/industry): _____

If other, indicate whether U.S. citizen Yes No

Address (visitors/non-LLNL only): _____

L-code (LLNL only): _____

If you would like to make a presentation at the Workshop, complete the following section

Category of presentation

- | | | |
|--|---|--|
| <input type="checkbox"/> Applied Imaging (astronomy, medical, satellite, forensic, etc.) | <input type="checkbox"/> Real-time Signal Processing/ Control/Imaging | <input type="checkbox"/> Sensors and Detection Systems |
| <input type="checkbox"/> Image/Signal/Control Algorithms/ Image Processing Software | <input type="checkbox"/> Synthetic Generation of Scientific Images | <input type="checkbox"/> Communications, Networking |
| <input type="checkbox"/> Signal/Image Processing Hardware | <input type="checkbox"/> Applied Signal Processing (medical, security, NDE, etc.) | <input type="checkbox"/> Other: _____ |

Abstract

- Instructions:*
- Please submit an abstract of up to 500 words by attaching to this form.
 - All LLNL abstracts must be reviewed and released PRIOR to submission.
 - Abstracts must be submitted no later than **October 6, 2006**.

Title: _____

Author(s): _____

Note: All submissions must be nonproprietary and nonpatentable. For LLNL only: All presentations must include a UCRL release number (IM system: <http://im.llnl.gov>).

Send your completed registration form and abstract to:

Vickie Abreu
P.O. Box 808, L-290
Livermore, CA 94551

Workshop schedule and other information will be sent *only* to those who register.